

**ABSTRACT:**

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The invention relates to a device for measuring current in an inductor and being connected in parallel with said inductor. The device includes a network in parallel with the inductor and connected to the terminals A and B comprising a resistor R2 in series with a resistor R1 in parallel with a capacitor C1; a voltage offset circuit having a DC voltage generator E connected in parallel with an offset resistor (Roffset) in series with two parallel resistors R3 and R4, the positive pole of the voltage source being connected to terminal B of the inductor; a temperature compensation circuit comprising a current source controlled as a function of the temperature, one of the two terminals of the current source being connected to the negative pole of the generator E, the other terminal of the current source being connected to different points of the measurement device.